



Energy and the New Reality 2: Carbon-free Energy Supply

L. D. Danny Harvey

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Transforming our energy supplies to be more sustainable is seen by many to be the biggest challenge of our times. In this comprehensive textbook, L. D. Danny Harvey sets out in unprecedented detail the path we must take to minimize the effects that the way we harness energy will have on future climate change.

The book opens by highlighting the importance of moving to low carbon technologies for generation, then moves on to explain the functioning, potential and social/environmental issues around:

- solar energy
- wind energy
- biomass energy
- geothermal energy
- hydroelectric power
- ocean energy
- nuclear energy.

It also covers the options for carbon capture and storage and the contexts in which low carbon energy can best be utilized (potential for community integrated systems, and the hydrogen economy). The book closes with scenarios that combine the findings from its companion volume (concerning the potential for limiting future energy demand) with the findings from this volume (concerning the cost and potential of C-free energy systems) to generate scenarios that succeed in limiting future atmospheric CO₂ concentration to no more than 450 ppmv. Detailed yet accessible, meticulously researched and reviewed, this work constitutes an indispensable textbook and reference for students and practitioners in sustainable energy and engineering.

Online material includes: Excel-based computational exercises, teaching slides for each chapter and links to free software tools.



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